SONY 3-786-808-21 (1)

Radio Cassette Player

WM-F701C

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

WALKMAN

Owner's Record

The model number is located at the rear and the serial number is located in the inside of the cassette holder. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. WM-F701C Serial No.

Features

- Stereo headphones with a remote controlled device which can operate the unit in your hand.
- The synthesized tuner can memorize 7 stations for each FM and AM.
- Dolby B and Dolby C NR system reduces tape hiss noise during playback.
- DBB (Dynamic Bass Boost) function for powerful mega bass sound.
- *EX Amorphous head which produces clear treble sound.*
- *Easy rapid winding—needless to think about the direction of the tape.* (Easy fast-forward/fast-reverse system)
- By pressing ▼ or ▲ during playback, playback starts after winding the tape automatically. (Skip reverse function)
- OCL drive circuit is used to achieve more sharp bass sound.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

INFORMATON

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J or Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna.
Relocate the equipment with respect to the receiver.
Move the equipment away from the receiver.
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

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Precautions

- Operate the unit only on 1.5 V DC. For AC operation or car battery operation, use the accessories recommended for the unit.
- Should any solid object or liquid fall into the unit, remove the battery or disconnect the AC power adaptor and have it checked by qualified personnel before operating the unit.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, or in a car with its windows closed.
- If the unit has not been used for a long time, set it in the playback mode and warm it up for a few minutes before inserting a cassette.
- The nameplate indicating operating voltage etc. is located on the rear exterior.
- You should run the unit for a minutes before inserting a cassette if it has not been used for a long time.

About the headphones

- Avoid listening with your headphones:
  —**while driving, cycling, etc.**
  — for an extended time at a high volume.
- Remember not to disturb those close to you with the sounds coming from your headphones.
- To obtain the optimum sound, keep the plug of your headphones clean by wiping it with a dry, soft cloth.

Notes on the Radio

The digital display will become dim if you place the unit in a location which is extremely hot or cold.

Do not place the unit in

—a place continuously subjected to direct sunlight or ultraviolet light (for example, on the seaside, etc.).

—a temperature below 0°C or over 40°C. In a hot place, the display will be seen as 188.8, and in a cold place, the display's flickering may become slower. (However, this is not a trouble. Use the unit in a normal temprature.)

—a damp place (for example, in a bathroom, etc.) It will cause malfunction.

—a place subject to mechanical vibration or shock.

Note on the rechargeable battery

Never peel the polyvinyl covers the rechargeable battery. It could cause short circuit.

Note on cassette longer than 90 minutes

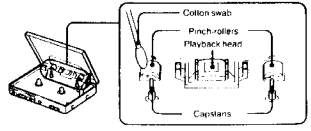
The use of cassettes longer than 90 minutes is not recommended except for long continuous playback.

If you have any question or problem concerning your unit that is not covered in this manual, please consult the nearest Sony dealer.

Cleaning

Cleaning the Head

Clean your tape head after every 10 hours of use to enjoy optimum stereo sound. Moisten a cotton swab or a soft cloth with alcohol and wipe the head, the pinch-rollers and the capstans.

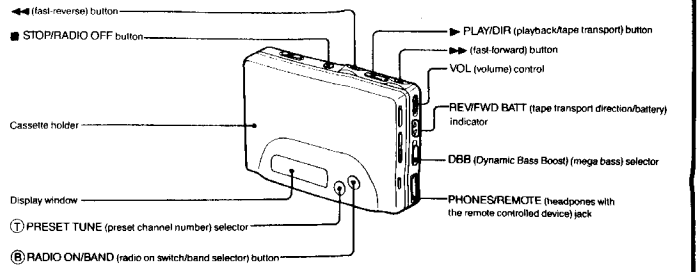


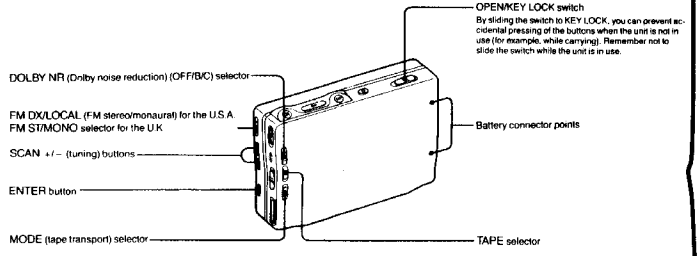
Cleaning the unit's exterior

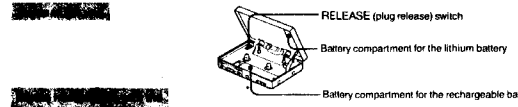
Clean your unit exterior with a water moistened soft cloth. Do not use alcohol, benzine or thinner to clean the unit's exterior.

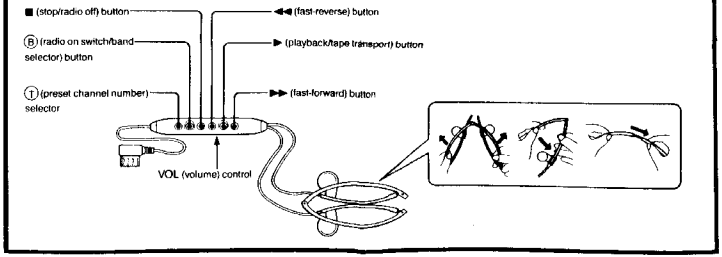
Parts Identification

Unit


◀◀ (fast-reverse) button
■ STOP/RADIO OFF button
▶ PLAY/DIR (playback/tape transport) button
▶▶ (fast-forward) button
VOL (volume) control
REV/FWD BATT (tape transport direction/battery) indicator
Cassette holder
DBB (Dynamic Bass Boost) (mega bass) selector
Display window
PHONES/REMOTE (headpones with the remote controlled device) jack
(T) PRESET TUNE (preset channel number) selector
(B) RADIO ON/BAND (radio on switch/band selector) button

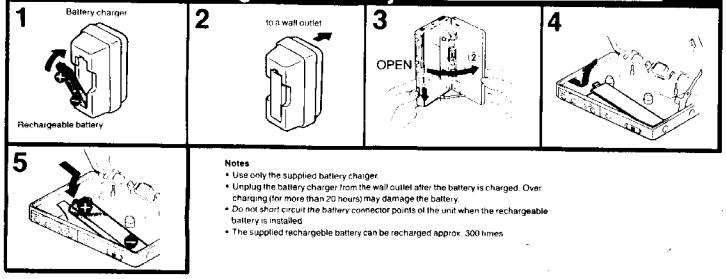

OPEN/KEY LOCK switch
By sliding the switch to KEY LOCK, you can prevent accidential pressing of the buttons when the unit is not in use (for example, while carrying). Remember not to slide the switch while the unit is in use.
DOLBY NR (Dolby noise reduction) (OFF/B/C) selector
FM DX/LOCAL (FM stereo/monaural) for the U.S.A.
FM ST/MONO selector for the U.K.
Battery connector points
SCAN +/– (tuning) buttons
ENTER button
MODE (tape transport) selector
TAPE selector


RELEASE (plug release) switch
Battery compartment for the lithium battery
Battery compartment for the rechargeable battery


■ (stop/radio off) button
◀◀ (fast-reverse) button
(B) (radio on switch/band selector) button
▶ (playback/tape transport) button
(T) (preset channel number) selector
▶▶ (fast-forward) button
VOL (volume) control

Using with a Rechargeable Battery

Before using, charge the rechargeable battery for approx. 3 hours with the supplied battery charger.

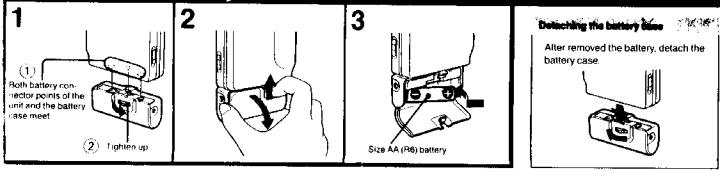


Notes

- Use only the supplied battery charger.
- Unplug the battery charger from the wall outlet after the battery is charged. Over charging (for more than 20 hours) may damage the battery.
- Do not short circuit the battery connector points of the unit when the rechargeable battery is installed.
- The supplied rechargeable battery can be recharged approx. 300 times.

Using with a Battery

The battery case is necessary.



Detaching the battery case

After removed the battery, detach the battery case.

Notes

- Do not short circuit the terminal of the battery case when the battery is installed.
- Insert the battery with correct polarity.
- When the unit is not to be used for a long period of time, remove the battery to avoid damage caused by battery leakage and corrosion.

When the battery becomes weak

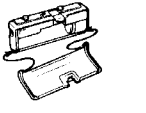
When the battery is weak, the REV/FWD BATT indicator will glow faintly and playback sound will be distorted or unstable. In this case, replace the battery or when using the rechargeable battery, recharge the battery.

Concerning the battery life, see "Specifications".

Note

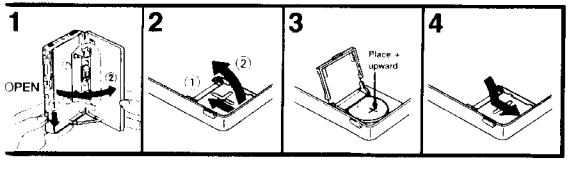
Remove the rechargeable battery if it is installed. Otherwise, the rechargeable battery will be damaged.

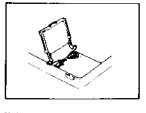
If the battery compartment lid is detached by an accidental drop, excessive force, etc., attach it as in illustration.



Installing a Lithium Battery (back up of the radio memory preset)

The unit can be operated without the lithium battery except radio memory preset. When the lithium battery runs down, the memorized channels will be failed. To reset the stations when reinstall the lithium battery again. Battery life is about a year.

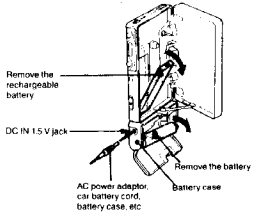




Note

- If the lithium battery compartment lid is detached by an accidental drop, etc., attach it as illustration.

Using Alternate Power Sources


Remove the rechargeable battery
DC IN 1.5 V jack
Remove the battery
Battery case
AC power adaptor, car battery cord, battery case, etc

Attach the battery case and connect an optional power cord such as AC power adaptor, etc., to the DC IN jack.

Note: Remove the rechargeable battery and the battery if they are installed before using the unit (on AC power). Otherwise, the batteries will be damaged.

Concerning alternate power source, see "Specifications".

Specifications

Radio section

Frequency range
- In the U.S.A.
  - FM: 87.9—107.9 MHz
  - AM: 530—1,670 kHz
- In the U.K.
  - FM: 87.5—108 MHz
  - AM: 531—1,602 kHz

Antenna
- FM: Headphones cord antenna
- AM: Built-in ferrite bar antenna

Tape player section and general

Frequency response (DOLBY NR off)
- 20—18,000 Hz

Output
- Headphones (PHONES/REMOTE jack) load impedance 8—300Ω

Power output
- 5 mW + 5 mW at DC operation, 16Ω

Power requirements
- 1.5 V DC
- Rechargeable battery
- One R6 (size AA) battery
- DC IN 1.5 V jack accepts
  - Sony AC-D1M power adaptor (optional) for use on 120 V AC, 60 Hz in the U.S.A. and 240 V AC, 50 Hz in the U.K.
  - Sony EBP-7 battery case (optional) for use with two R6 (size AA) batteries
  - Sony DCC-70 (optional) for use with 12 V car battery

Battery life

Battery	Playback	Radio Reception
Rechargeable NC-6WM fully charged	Approx. 2.5 hours	Approx. 5 hours
Sony SUM-3 (NS)	Approx. 1.5 hours	Approx. 3 hours
Sony AM3 (N)	Approx. 4.5 hours	Approx. 8.5 hours
Rechargeable NC-6WM with Sony AM3 (N)	Approx. 8.5 hours	Approx. 12 hours

For maximum performance we recommend the use of alkaline batteries.

Dimensions
- Approx. 104.6 × 71.8 × 22.4 mm (w/h/d) not incl. projecting parts and controls
- Approx. 105.6 × 74.2 × 24.5 mm (w/h/d) incl. projecting parts and controls

Weight
- Approx. 190 g incl. rechargeable battery, not incl. other accessories

Accessories supplied
- Battery case (1) Carrying pouch (1) Battery charger (1)
- Rechargeable battery (1) Lithium battery (1)
- Stereo headphones with remote the controlled device (open-air type, 1)
- Plug adaptor (1) Clip (1)

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

Optional accessories

Battery case EBP-500B, AC power adaptor AC-D1M, Car battery cord DCC-70, Lithium battery CR-2016

Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information about the optional accessories available in your country.

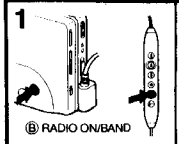
Note: Use only the recommended an AC power adaptor or a car battery cord manufactured by Sony. Polarity of the plug of other manufacturers may be different.

Polarity of the Sony Plug

Radio/TV Reception

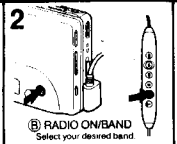
Connect the headphones before listening to the radio. (See step 3 of "Tape Playback".)

1



Display comes up on the display window.

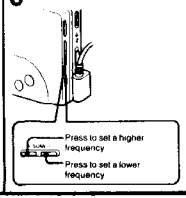
2



Select your desired band.

The band indicator changes between AM and FM by each pressing.

3 Tune your desired station in.



There are three ways to tune in:

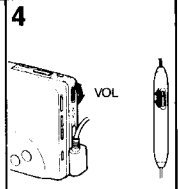
—One step scan
Press either of the scan buttons, then release it immediately. With each pressing, the frequency changes as listed below with rapid beeps.

	U.S.A.	U.K.
FM	0.2 MHz	0.1 MHz
AM	10 kHz	9 kHz

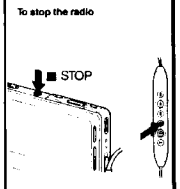
—Seeking scan
Press either of the scan buttons for a second, then release it. The frequency goes up or down automatically and each station can be heard. When a desired station is heard, press the scan button again to stop the scanning.

—Fast scan
Keep either of the scan buttons pressed for more than 1.5 seconds. The frequency goes up or down quickly. When it comes up to your desired station, release the button. When a desired station is heard, press the scan button again to stop the scanning.

4

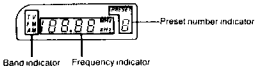


To stop the radio



Display comes off.

Display Window



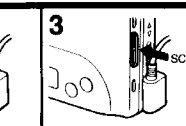
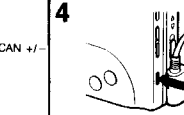
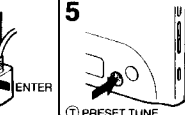
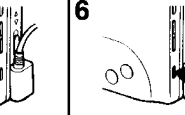
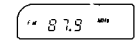
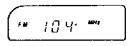
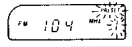
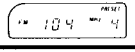
To Improve Receiving FM Sensitivity

For the U.S.A.
Normally set to OX. If a very strong station signal causes noise, set to LOCAL. The noise will be reduced.

For the U.K.
Normally set to FM ST. Set it to MONO when it is hard to listen to the broadcast due to noise. The reception will be more stable and noise will be reduced. In this mode, there is no stereo effect.

Memory Preset Tuning

To Memorize Station Frequencies Manually
Step 4 to 6 are cancelled after about 4 seconds. Proceed the process quickly.

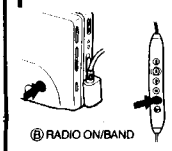
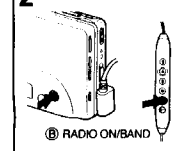
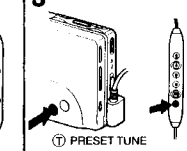
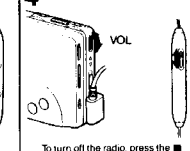
1	2	3	4	5	6
Ⓑ RADIO ON/BAND	Ⓑ RADIO ON/BAND	 SCAN +/−	 ENTER	 Ⓣ PRESET TUNE	 ENTER
Display comes up.	Select the desired band.	Tune a desired station in.	Flickering "PRESET" and the channel number come up in the display window.	While flickering indicators appear, select a desired preset channel number.	Press the button to enter the desired station immediately.
Example Try to preset FM 104 MHz in the preset channel 4.	Press the button until FM is come up in the display window. 	Press the + button to tune in 104 MHz. 	Flickers about 4 seconds. 	Press the button until the desired preset channel number comes up in the display window. Flickers about another 4 seconds.	It has been entered. 

Repeat steps 1 to 6 for each AM and FM.

To turn off the radio, press the ■ STOP button.

Note
Step 4 to 6 are cancelled after about 4 minutes after pressing the corresponding buttons. If the indicators finish flickering before you have not finished, repeat the steps again.

To Tune in a Preset Station

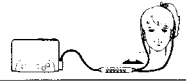
1	2	3	4
 Ⓑ RADIO ON/BAND	 Ⓑ RADIO ON/BAND	 Ⓣ PRESET TUNE	 VOL
	Select the desired band.	Select the desired preset channel number.	To turn off the radio, press the ■ STOP/RADIO OFF button.

Note
- Be sure to remove the cassette tape if it has metallic cassette shell or metallic labels.
  Such cassettes may cause interference or difficulty in tuning.

When the battery becomes weak while listening to the radio
The display may go off and the REW/FWD BATT indicator may glow brightly.
(The indicator should glow faintly when the battery becomes weak.)
If this happens, replace or recharge the battery.

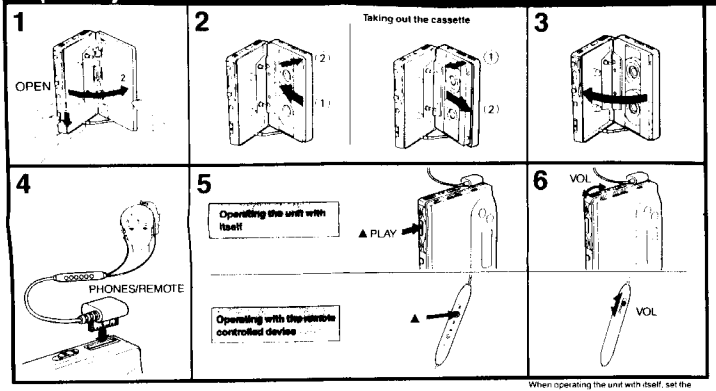
To Improve Receiving Condition

FM: Since the ear receiver cord serves as an FM antenna, extend it for better reception.



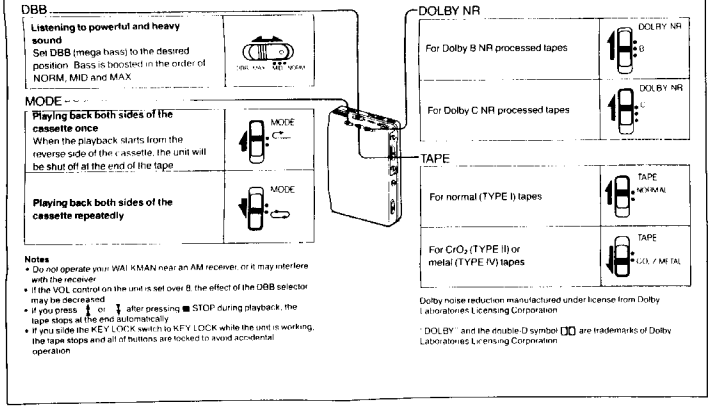
AM: Since the reception is affected by the direction of the unit, rotate the unit horizontally for optimum reception.

Tape Playback



When operating the unit with itself, set the VOL control of the remote controlled device to MAX. and operating the unit with remote controlled device, set the VOL control of the unit to around 6.

Tips on tape operations


DBB
Listening to powerful and heavy sound
Set DBB (mega bass) to the desired position. Bass is boosted in the order of NORM, MID and MAX.
MODE
Playing back both sides of the cassette once
When the playback starts from the reverse side of the cassette, the unit will be shut off at the end of the tape.
MODE
Playing back both sides of the cassette repeatedly
MODE
DOLBY NR
For Dolby B NR processed tapes
DOLBY NR
B
For Dolby C NR processed tapes
DOLBY NR
C
TAPE
For normal (TYPE I) tapes
TAPE
NORMAL
For CrO2 (TYPE II) or metal (TYPE IV) tapes
TAPE
CrO2 / METAL

Notes

- Do not operate your WALKMAN near an AM receiver, or it may interfere with the receiver.
- If the VOL control on the unit is set over 8, the effect of the DBB selector may be decreased.
- If you press ▲ or ▼ after pressing ■ STOP during playback, the tape stops at the end automatically.
- If you slide the KEY LOCK switch to KEY LOCK while the unit is working, the tape stops and all of buttons are locked to avoid accidental operation.

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Tape Operations

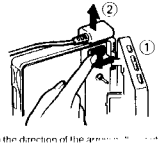
	Operating the unit with itself	Operating the unit with remote controlled device
To stop the tape	■ STOP	■
To listen to the other side of the cassette during playback	▲ PLAY/DIR	▲
To forward the tape rapidly	The tape will forward in whichever the direction of the tape being played back. By pressing the ▲ button during playback, playback of the other side of the cassette will automatically start when the tape comes to the end. (Skip reverse function)	
To reverse the tape rapidly	The tape will rewind in whichever the direction of the tape being played back. By pressing the ▼ button during playback, playback will automatically start when the tape comes to the first	

Tape Directions

	Operating with itself	Operating with remote control	
Playing back the cassette holder (forward) side	Lighting	Flickering	Flickering Lighting
Playing back the other (reverse) side	Lighting	Flickering	Lighting Flickering

- While playing back the cassette holder (forward) side of the tape, the FWD indicator lights up.
- While playing back the other (reverse) side, the REV indicator lights up.
- If you press ▲ or ▼ during playback, the indicator of worked one starts to come on and off.
- If you press ▲ or ▼ during playback, the playback starts after winding the tape automatically. When you do not use the unit after winding the tape, be sure to press the ■ STOP button.
- The volume is not turned down completely if you operate with the remote controlled device.
- Do not open the cassette holder while the unit is working.

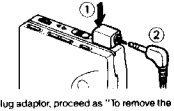
To remove the headphones with the remote controlled device



While sliding ① in the direction of the arrow, [illegible]

To connect an optional headphones

Use the supplied plug adaptor.



To remove the plug adaptor, proceed as "To remove the headphones with the remote controlled device".